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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/771,043	02/03/2004	Gurtej S. Sandhu	150.01150103	1538
26813	7590 08/10/2004		EXAMINER	
MUETING, I P.O. BOX 581	RAASCH & GEBHAR 415	GAKH, YELENA G		
MINNEAPOLIS, MN 55458			ART UNIT	PAPER NUMBER
			1743	

DATE MAILED: 08/10/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)	
		10/771,043	SANDHU, GURTEJ	S.
	Office Action Summary	Examiner	Art Unit	
		Yelena G. Gakh, Ph.D.	1743	
	The MAILING DATE of this communication app	ears on the cover sheet t	with the correspondence add	ress
Period fo				
THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Period for reply specified above is less than thirty (30) days, a reply of period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a within the statutory minimum of the will apply and will expire SIX (6) MC cause the application to become	a reply be timely filed  nirty (30) days will be considered timely.  DNTHS from the mailing date of this con  ABANDONED (35 U.S.C. § 133).	nmunication.
Status				
1)[🖂	Responsive to communication(s) filed on <u>03 Fe</u>	ebruary 2004.		
2a)	This action is <b>FINAL</b> . 2b)⊠ This	action is non-final.	•	
3)□	Since this application is in condition for allowar	•	• •	merits is
	closed in accordance with the practice under E	x parte Quayle, 1935 C.	D. 11, 453 O.G. 213.	
Dispositi	ion of Claims			
5)□ 6)⊠ 7)□	Claim(s) <u>42-87</u> is/are pending in the application 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) <u>42-87</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	vn from consideration.		
Applicati	on Papers			
10)⊠	The specification is objected to by the Examine The drawing(s) filed on <u>03 February 2004</u> is/are Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	e: a)⊠ accepted or b)⊡ drawing(s) be held in abeya ion is required if the drawin	ance. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFF	R 1.121(d).
Priority ι	ınder 35 U.S.C. § 119			
a)[	Acknowledgment is made of a claim for foreign All b) Some * c) None of:  1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureausee the attached detailed Office action for a list of the certified copies of the certified copies of the priorical bureause the attached detailed Office action for a list of the certified copies of the certified copies of the priorical bureause the attached detailed Office action for a list of the certified copies of the priorical bureause the certified copies of the certified copies of the priorical bureause the certified copies of the certified copies	s have been received. s have been received in ity documents have bee ı (PCT Rule 17.2(a)).	Application No n received in this National S	tage
Attachmen	t(s)			
1) Notic	e of References Cited (PTO-892)		Summary (PTO-413)	
3) 🛛 Inform	e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date 04/29/04, 06/18/04.		(s)/Mail Date Informal Patent Application (PTO-1	152)

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#### **DETAILED ACTION**

### Priority

1. This application is claiming the benefit of a prior filed nonprovisional application under 35 U.S.C. 120, 121, or 365(c). However, copendency between the current application and the prior application is required. Since the U.S. patent No. 6689321 (application US 10/266,797) was issued prior to the filing date of the instant application, no priority can be granted for the instant application.

## **Double Patenting**

2. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

3. Claims 42-64 and 65-87 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-56 of U.S. Patent No. 6,479,297 and claims 1-28 of U.S. Patent No. 6,689,321, respectively. Although the conflicting claims are not identical, they are not patentably distinct from each other because at least two electrodes of pending claims 65-87 read on a serpentine electrode and a comb electrode of claims 1-28 of the patent, with all other limitations recited in the patented claims.

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## Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
  - 1. Determining the scope and contents of the prior art.
  - 2. Ascertaining the differences between the prior art and the claims at issue.
  - 3. Resolving the level of ordinary skill in the pertinent art.
  - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 6. Claims 42-87 are rejected under 35 U.S.C. 103(a) as being unpatentable over Blalock et al. (US 2003/0138958 A1).

Blalock discloses a sensor array and a method for detecting a metallic compound including RuO<sub>4</sub>, IrO<sub>4</sub> and RhO<sub>4</sub> in a gaseous phase. The sensor comprises a substrate surface, at least two electrodes and a receptor material deposited between electrodes, e.g. polypropylene film for detecting RuO<sub>4</sub>. While Blalock does not specify a shape of the receptor material as two or more lines, it would have been obvious for anyone of ordinary skill in the art to modify Blalock's sensor by the shaping the receptor material as at least two lines in order to concentrate the detecting compound on these lines.

#### Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. *Torsi* (GB 2,048,471 A) teaches "determination of metal in gas" by capturing the gas on the walls of a cylinder with an electrode with following measurement of the captured metal

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vapor with electrothermal atomic absorption; *Nerney (US 3,714,562)* teaches a "method and apparatus for the detection of selected components in fluids", e.g. mercury vapor in air, "by selectively absorbing the component onto a conductive thin layer of molecular thickness of a material having a chemical affinity for such compound, and observing the resultant change of electrical resistively of the layer".

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yelena G. Gakh, Ph.D. whose telephone number is (571) 272-1257. The examiner can normally be reached on 9:30 am - 6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jill A. Warden can be reached on (571) 272-1267. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Yelena G. Gakh 8/7/04